

A few terms we will use today

- Median (the middle)
- · Interquartile range (the middle half)
- Scatterplot (two variables graphed against each other)
- Regression line (a line which best fits the points in a scatterplot)
- **Correlation** (+1.0 is the strongest positive relationship, 0.0 is no relationship, and -1.0 is the strongest negative relationship)

The median (in red) is the exact middle of the data, half are above and half are below.

Total incidents per 1,000 Population

0 20 40 00 80 100 120 140 160 180

ASHEVILLE SALISBURY
BURLINGTON CHARLOTTE HICKORY GASTONIA
RALEIGH GREENSORO
WILMINGTON HIGH PCINIT WILSON CONCORD
WILMINGTON DURHAM CARRIBORO
GREENVILLE CARY

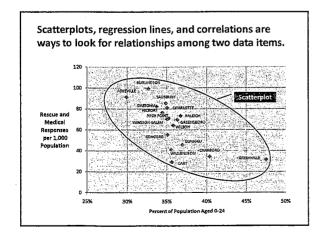
MILMINGTON HIGH CARRIBORO
GREENVILLE CARY

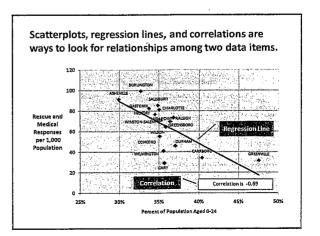
The interquartile range is the middle half of the data (25th to 75th percentile).

Total Fire Department Incidents per 1,000 Population

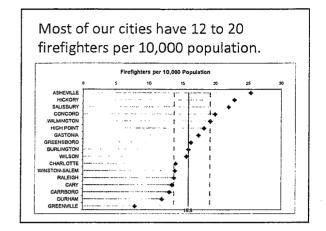
Total Fire Department Incidents per 1,000 Population

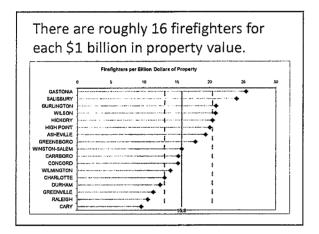
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SALISBUTICE
SALISBUTICE
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CONCORD
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DURHAM
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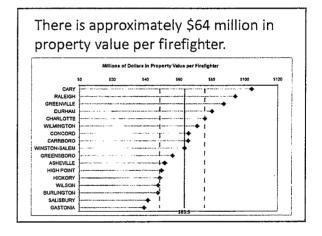


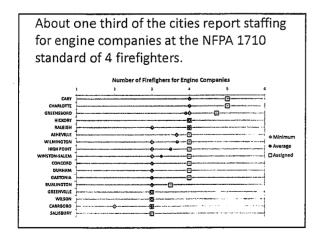


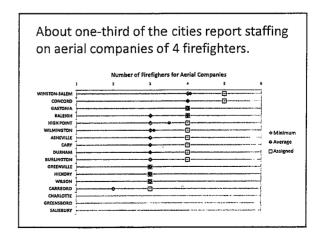


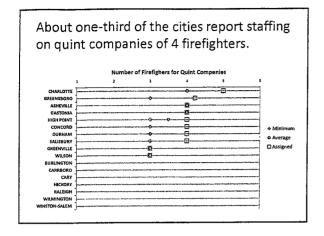


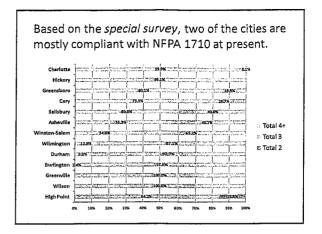


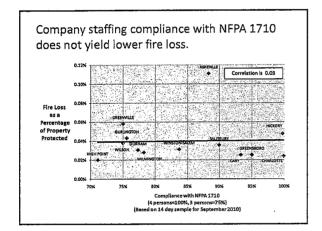


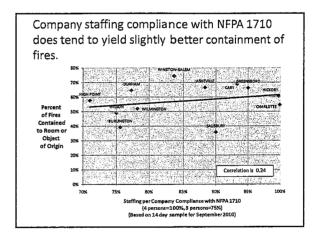


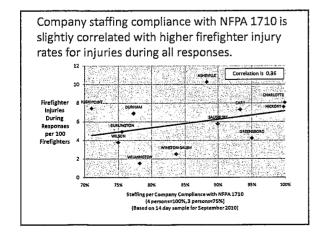


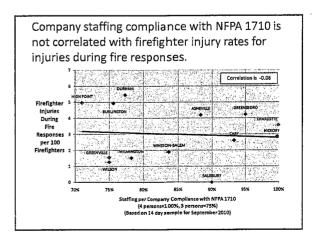


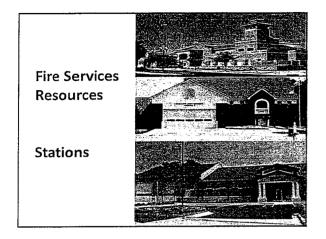


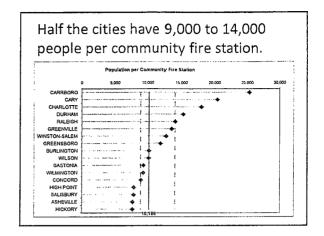


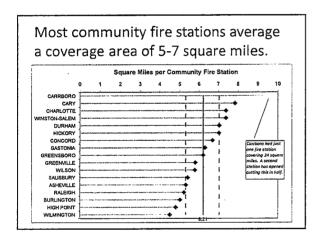


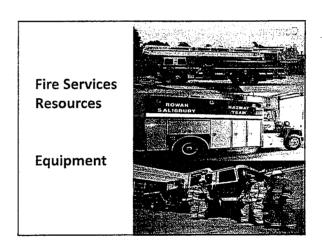


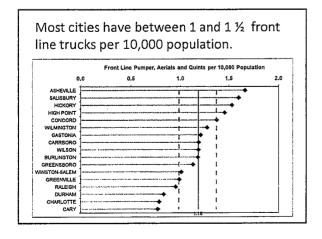


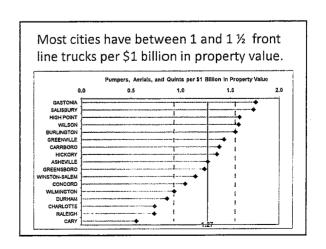


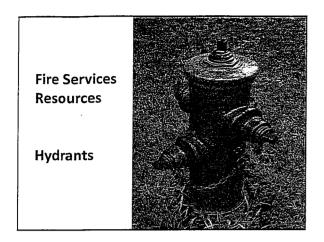


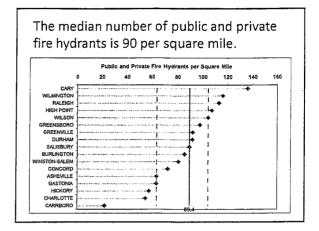










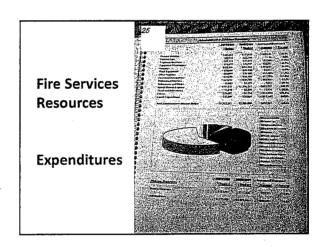


Most cities have between 300 and 600 fire hydrants for each billion dollars in property value.

Fire Hydrants per \$1 Billion in Property Value

0 200 400 800 800 1,000

WILSON HIGH POINT SALISBURY GASTONIA GREENIALE GREENISORO ULPRUNITON WINSTON-SALEM HIGH POINT SALISBURY CARPRICATO CHARLICH CAPRICATO CHARLICH CAPRI

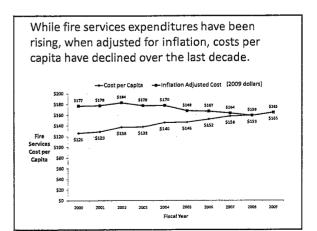


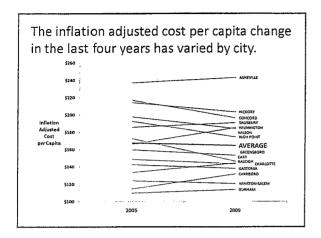
Most cities' total fire services costs run between \$130 and \$200 per capita.

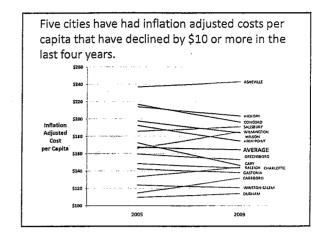
Fire Services Costs per Capita

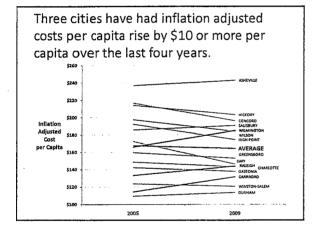
50 \$50 \$100 \$150 \$200 \$250 \$300

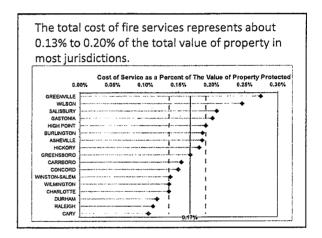
ASHEVILE HICKORY CONCORD SAUSBURY GREENNILE WILMINGTON WILSON HIGH POINT GREENSORD CHAPLOTTE BURNUNTON GREENSORD CHAPLOTTE BURNUNTON GREENSORD CHAPLOTTE BURNUNTON GREENSORD CARREGER CHAPLOTTE BURNUNTON GREENSORD CHAPLOTTE B

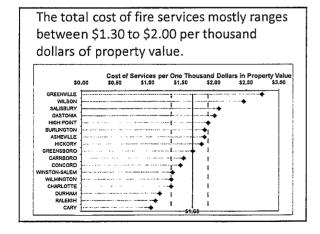


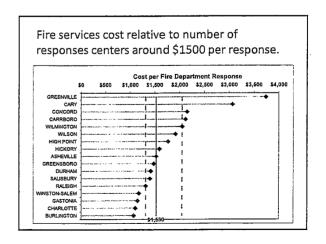


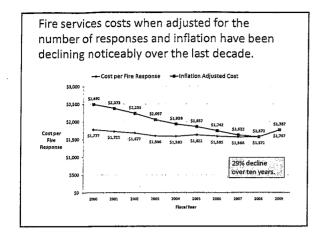


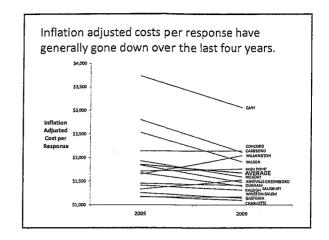


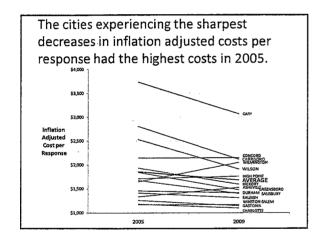


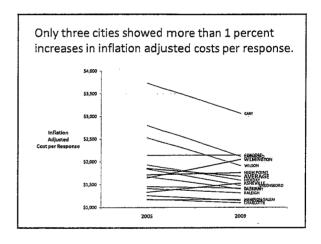


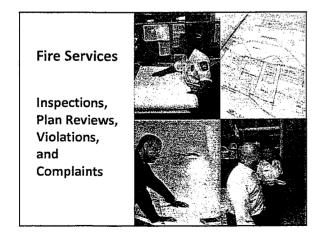


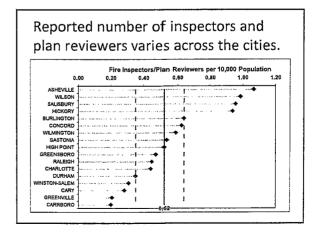


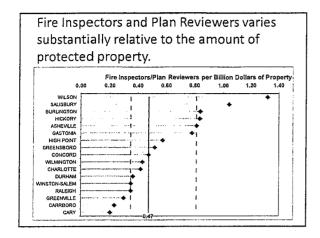


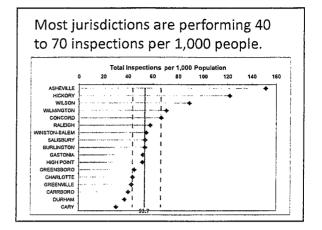


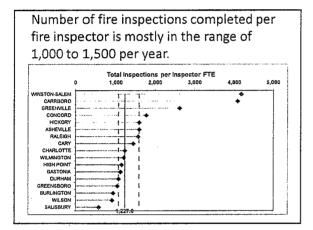


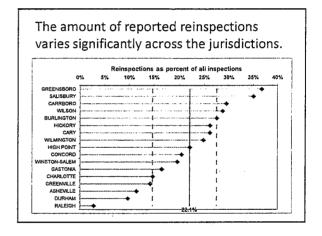


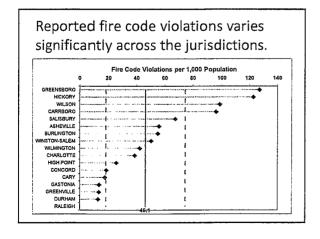


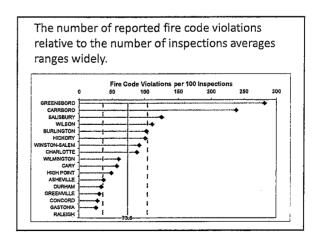


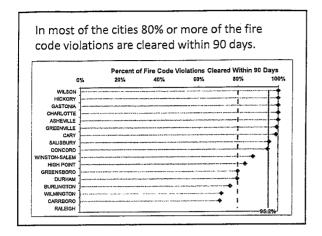


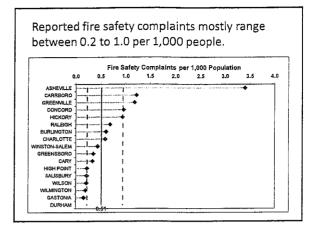


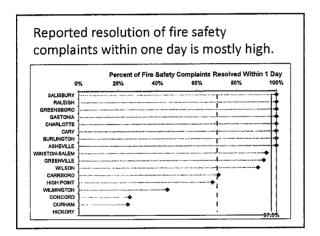


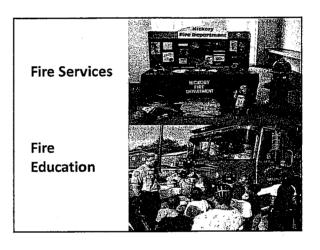


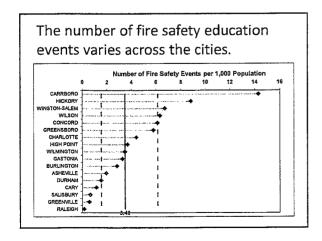


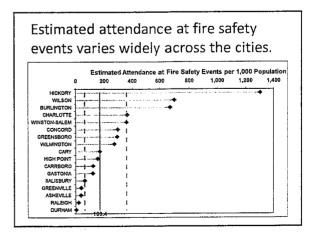


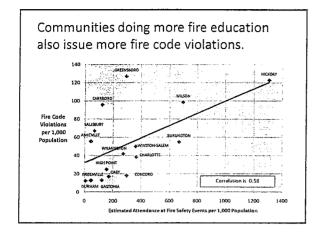


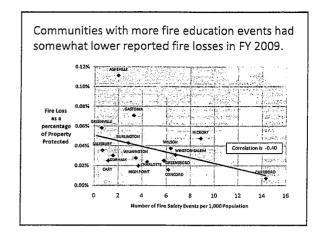


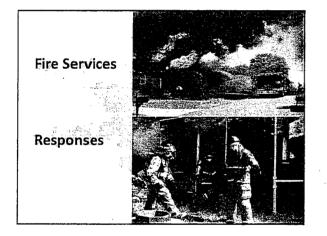


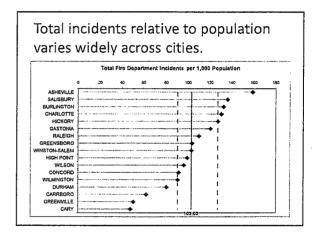


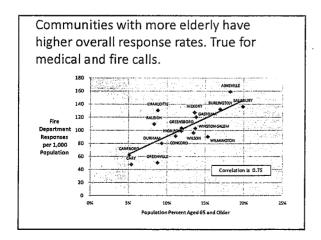


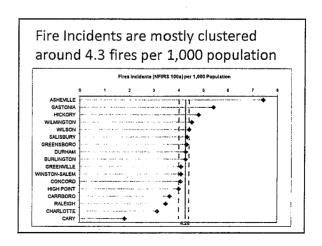


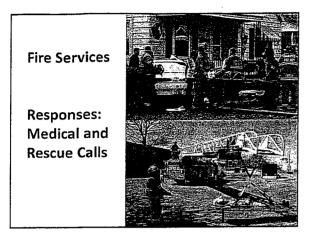


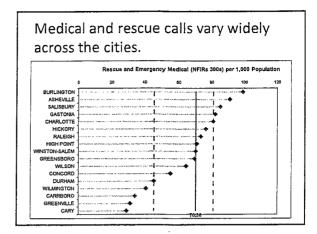


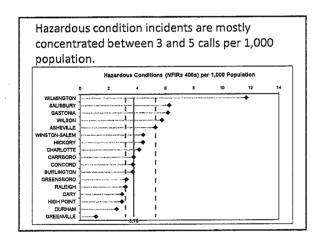


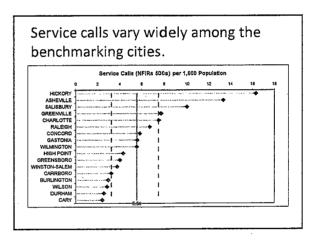




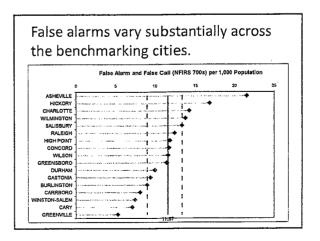








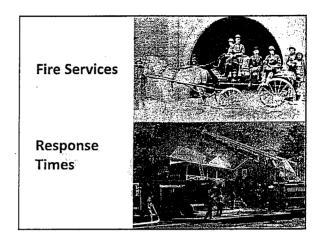




Good intent calls vary significantly across the benchmarking cities.

Good Intent Call (NFIRs 600s) per 1,000 Population

ASHEVILLE CHARLOTTE DURHAM SAUSBURY WILMONTON WINSTON-SALEM GASTONA CONCORD GREENGORD GREENGORD GREENGORD HGKORY WILSON HIGH POINT CARY OR CAPRONT CARY OR CAPRONT CAPPY OR CAPRONT CAPPY OR CAPPOINTENT CAPPY OR CAPPOINTENT CAPPY OR CAPPOINTENT CAPPY OR CAPPOINT CAPPY OR CAPPOINTENT CAPPY OR CAPPOINT CAPPY OR CAPP



Average turnout time was generally was just under one minute for the cities.

Average Turnout Time for First Arriving Unit

0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6

BURLINGTON
GASTONIA
HICKORY
ASHEVILE
HIGH POINT
SALSBURY
CHARLOTTE
CONCORD
WILLSON
DURHAM
WINSTON-SALEM
GREENSORG
CARRBORG
WILLINGTON
RALEIGH
GREENWILLE
GREENWILLE

0.9

Average travel time for the first arriving unit was generally between three and 4 minutes.

Average Travel Time for First Arriving Unit

0.0 1.0 2.0 3.0 4.0 5.0

WILMINGTON
OUR-DAM
SALISBURY
CARRORO
CONCORD
GASTONIA
WINSTON-SALEM
CHARLOTTE
ASHEVILLE
ASHEVILLE
ASHEVILLE
GREENVILLE
GREENVILLE
GREENVILLE
GREENVILLE
1
1
3.4

Average combined time of dispatch, turnout, and travel mostly ranged from 5 to 7 minutes for the first unit across the benchmarking cities.

Average Dispatch, Turnout, Travel Time for First Unit 2.0 4.0 5.0 8.0 10.0

GASTONIA DURHAM OARBORD HICKORY VILLMINGTON SALISBURY VILLMINGTON SALISBURY VILLMINGTON CONCORD WINSTON SALE ASHEVALLE CHAPLE CHAPLOTTE HIGH POINT WILSON GREENSBORD RALEIGH GREENVILLE 5.0

